#### Dr. Homi Bhabha State University, Mumbai Barcode No.1900074067 (Read the Instructions given on the reverse side) Use Blue / Black Ball Pen only to darken the appropriate circles. Do not fold, tear, wrinkle, staple or use whitener on the cover page of the answer book. Do not write or mark on the barcode and the timing tracks. **WRONG METHOD** CORRECT METHOD Do not write/Mark on Bar Code $\otimes \otimes \bullet \bullet$ •000 Supplement Booklet Information Signature of Candidate Candidate Seat Number Supplement Taken Write the Supplement Barcode No. 201922300369 N $\mathbf{Y}$ College Seal and Date $0 \bullet 0 0 0 0 0 \bullet \bullet$ If Yes, How Many $00 \bullet 00000$ **Booklets** (1)(2)(3)(4)●222●●22 333333●3 **DEC 2019** Confirm and Sign by Block Supervisor 4444444 5555555 Medium of Answer 66666666 1. English **⑦⑦⑦⑦⑦⑦⑦⑦**⑦ 2. Marathi 888888 999 - 99993. Other PRN 2 9 8 2 2 Subject Code (printed on 0 ١ O ٥ Q.P.Code Hallticket) Candidate 2 2 ١ 3 0 2 0 0341 Seat No. 0 3 1 lacktriangle000000000000 $0 \bullet 0 0 \bullet 0$ 22222 22222 3 - 3 3 3 3 $\blacksquare$ 33 $\blacksquare$ 33 0 **Exam Date** O 44 - 44444444**55555** 55555 MSCIBiochemistry **Program Name** 666666 666666 **Program Code** Year Semester $\mathcal{D}$ $\mathcal{D}$ 88888 88888 m Ust 0 S e 999999999999**Subject Name** biology and microbiology cel Signature & Name of the Signature of Chief Coordinator

Subject Code

Part - B
Barcode No.1900074067

Do not write/Mark on Bar Code

Block Supervisor with Date

Question wise marks given by Examiner			
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Name and Signature of Moderator with Date

### **INSTRUCTIONS TO CANDIDATES**

- Candidates should occupy the correct seat and write correct seat number and other details in the space
  provided for the purpose on the answer-books.
- Candidates who are not in their seats by the time notified, will not as a rule be permitted to appear for the examination. The Senior Supervisor may at his/her discretion admit those who give him/her a satisfactory reason.
- 3. Each answer-book contains forty pages. Check whether the pages are properly numbered.
- 4. Candidates should write their answers in legible handwriting. They are warned that zero marks may be assigned to answers which cannot be assessed by the examiners owing to illegible handwriting.
- 5. Write on both sides of a page. Rough work where necessary, should be done on the last page in the space provided. No page should be left blank. Any such act shall be treated as unfair means.
- 6. Do not write anything in the Examiner & Moderator sheet (Part-B) & Re-Evaluator Sheet except Candidate details.
- 7. Do not damage or make any stray marks on the barcodes.
- 8. Candidates will not be permitted to leave the examination hall until half an hour after the question paper is distributed.
- All answer-books supplied shall be returned whether written or blank. Nothing shall be written on the questionpaper.
- 10. No sheet shall be torn from the provided answer-books nor shall additional papers attached to them.
- 11. Even if it is mentioned in question paper to write each section in separate answer book, if any paper / subject have multiple sections, the candidate has to write all sections in one and the same answer book.
- 12. A warning bell will be given ten minutes before the close of the examination. Candidates will not be allowed to leave the examination hall during the last ten minutes. At the final bell, they must stop writing and be ready to hand over their answer books to the Junior Supervisor. They should not leave their seats until answer-books from all candidates are collected by the Junior Supervisor.

### **UNFAIR MEANS IN THE EXAMINATIONS**

- 13. Candidates shall write the answers only with BLUE/BLACK ink Ball pen only. Use of any other Pen like Gel ink or Fountain ink or any other colour ink, will be treated as unfair means in terms of revealing of identity.
- 14. Candidates are forbidden to (i) bring any book, notes, scribbling papers, pages, Mobile phones/smart watches or any other similar devices. (ii) speak or communicate in any manner to any other candidate, while the examination is in progress, and (iii) take with them any answer-book written or blank while leaving the examination hall. The supervisors/authorized persons are authorized to check the students.
- 15. A candidate who disobeys any instructions issued by the Senior/ Junior Supervisor or who is guilty or rude or disobedient behavior is liable for disciplinary action to be taken against him / her by the University.
- 16. Do not fold the answer book anywhere because it will be treated as unfair means in terms of revealing of identity.
- 17. Candidates suspected to be guilty of any of the aforesaid acts will be allowed to write their paper only after giving an undertaking in writing that the decision of the University in respect of the reported act of unfair means is binding on them/Exchange of writing materials, stencils, mathematical instruments, etc. is strictly prohibited. If candidates want anything, they should approach the Junior Supervisor without disturbing other candidates. However, they should not leave their seats on any account..
- 18. Any method to bribe the examiner/s by attaching currency notes or letters is strictly prohibited and will result in serious action being taken by the University
- 19. Seat number should be written only the space provided for the same. Candidate should not write his/her name in any part of the answer-book. Writing Name, Seat No., Phone/Cell No., putting signature, use of religious invocation or any writing that is not relevant to the answers anywhere in the answer-book will be treated as attempts to reveal identity.
- 20. Underlining of answers for focusing attention is permitted. However, use of varied inks, except for illustrations and figures must be avoided. DO NOT use symbol like encircling the question or using colour arrows for P.T.O. These will all be considered as attempt to readily identify the specific answer-book & will be treated as unfair means.





Space for Marks	Question No.	START WRITING HERE
QĪ		Mitochondria:-
		Mitochondria is a membrane bound organelle
		present in eukaryotes cells.
		Mitochondria is also called al power house of
		Cels.
	-	impotant role of mitochondria is, provide
		energy for cells.
		mitochondria produced ATP for Synthesis of
		Cels
		oxid mitochondia play tole in a oxidative
		phosphoriation
		In oxidative phosphorylation, óxidase release
		energy and converted into Adenosine Hiphosphote
	_	mituchandria Contain Structure Contain 2 types
		of the membrane outer membrane and
		innet mitochondtial membrane.
-	-	outer membrane is caused for Sufface of
:		the mitochandria
		inner membrane contein the tolded
		like called as cristae.
		Crista e ir folded bn a inner membrane
		is a important thing.
		mitochandria Contain a genetic meter material
		Deonytibose nucleic deid.
,	-	The mitochandrial Structure Contain
		intermembrane space.
		*



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Space for Marks	Question No.	START WRITING HERE
		The intermembrane Space in between the
	4	outer membrane and inner membrane &
	<u>-</u>	The mitochondria diameter is 2 to 3 nm
		mitochondria Contain mitochondrial mathix.
		Chistaf.
		5
		outer membrane
		innermembrane
		ANDMA
		in the standing with the standing of the stand
		Structure of mitochondria.





Space for Marks	Question No.	START WRITING HERE
3		
		Chloroplast:-
	·	Chloroplast is a fuel Source of world willide for
		food and energy source for plants and
		humans
		Chropplast is a lingal type of cert organelle
		present in all eukanyotes cells.
		chlopplast absent in prokaryotes.
	-	important function of chloroplast is a
		photosynthesis.
	ſ	in Chloroplast dark and light ithomais present.
	_	light Stroma is densitive too the Sunlight
	-	& chropplast is a disk shaped structure and
		Satellite shape
	L.	Chloroplast present in almost all europotes
		Chloroplast present in almost all eurapotes  Cells from the form of the control o
	~	Chlumplast mostly present heterothophic plant.
		they produce own food material.
	-	another function of Chloroplast is they
		produce Jugar like gluisse, galactuse etc.
		and protein
		The Complex organization in Chloroplast is
		a thylaeoid region.
	-	The chloroplast Contain outer and inner
		membrane:
		Chloroplast produce protein Juyar aswellas
		Chiorplayt produced another food material
,		like oils etc.



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Space for Marks	Question No.	START WRITING HERE
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		Boo o outer membranc
		inner membrane
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		Ribosome
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Space for Marks	Question No.	START WRITING HERE
$Q_2$	- [A	membrane transport in bacteria
	-	phosphotransferase system is a membrane
		Hansport System in bacteria.
	Į.	phosphotransferase system also called as group
		Hanslocation ar pts
	•	PTS system used for the Jugar uptake of
_		baeteria.
	-	PTS system is multicomponent system.
	-	PTS System also used a active Hansport
	-	Sugars like gluwse, galactuse, lactuse and
		Cellubiose are uptace in PTS System.
		membrane Hansport in bacteria mechanism are
		follows.
	-	PTS used the PEP physphothery-letase
		phospho enolopyravate for these mechanism.
		The phosphoenul pyruvate a contain phosphate
		group, these phosphate group transport into
		the Englishetz histidine hich protein.
	-	PTS System Contain enzymeI, enzymeTA
		enzyme IIB and enzyme c. histidine protein
	:	etc
		histidine tich protein transport the phusphuate
		group to the enzyme I
		enzymet received phosphate group to histidire.
		then pass to the enzyme II
	-	enzyme II pass phosphate group to the enzymeIIA



<u>.</u>			
Space for Marks	Question No.		
		and the enzyme ITB	
		Then finally ephosphate group Hanster	
		into enzyme II c. enzyme II c is et attented	
		to the intermembrane mathin	
		Then phosphate group used of phoduled the	
		gluvose and then gluvore 6-phosphate.	
	*****	The phosphotransferase system we it play note	
		for sugar uptake of bacteria.	
<u>.</u>			
		OHISTICINE DENZYMENTA 8=30	
· .		pyruvate D Enzymet Enzymet	
		S=8	
	-	gluose->	
		glucos e c-phosphate.	
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Space for Marks	Question No.	START WRITING HERE	
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HBSU		
Space for Marks	Question No.	
93]	Ā -	Cytaskeleton is actin filaments and tubules
	f I	Cytoskeleton present in all organilles except
		nucleus.
	_	Cytoskeleton phoride Structural support, fu
		Strictural motility etc.
		Cytoskeleton have mich tubules and mich-
		tilaments types
		michofitaments terbules are actin tilaments.
		present in all organelle
		Because they Contain Actin protein.
	_	microfubules are Smallest Cytuskeleton types.
		mich tubules are 2-3 nm in diameter.
		michatubes is rigid globular. they conten'n
	_	branched or unbranced + filaments.
		roito tubos phovide Structuras motility.
		michtubues also found in some bacterial
		Species
		······································





		HBSU
Space for Marks	Question No.	START WRITING HERE
		Microfilaments are large in in Cytackeleton.
		michofilaments are Thm.
		microfilamente contain two types filaments
		branched and unbranched.
		microfilaments cere play role in cillia.
		mich filaments present in all protein cetto
		elastin, Collegen, Keratin laminer.
		Thes microfilaments play hole for these & protein
		encept lamina.
	-	lamina is play hole for the nucles.
		they play hole for the nucleus provide Support.
		can get the second of the seco
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Space for Marks	Question No.	START WRITING HERE
	B	G-protein recceptor also called as GPCR
		G-protein Coupled recceptor is the largest
		types of coupled receptor in cell legnalling
		It Consist of 7 signaling helicaes.
		as soon as attached to the transfer
		ot signals.
		The thee types of these receptor of Br
		types of the receptor.
		et-protein is a largest in Cell- signalling.
	<b></b>	They contein photein like actin, myosin
		and also present in GPCR.
		three recuptor of 13 x present.
		T leynaling helices by G-protein.
		Traff Carlot
		The state of the s
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Space for Marks	Question No.	START WRITING HERE
· 04]		Bacteriophouses is a virus. They offect for
		the bacterial species.
	-	Bacteriophase also called phase
		Bacteriophase contain Cylin tettahedral head
	,	and Cylindrial tail.
	_	In tetrahedral head is up present in upper
	,	position of phase and tail is present in
		lower paition.
	-	The tetrahydral head contain genetic
		material such as nucleic acid DNA.
		Bactériophone also contein Capsule.
		the state of the s
		Hand Capsule. DNA
		DNA DNA
		Tail
		Tail
		Bactetiophases occ proceede in two cycle
		lysugenic Cycle and lytic cycle.
		lytic cycle is a direct profilering cycle.
		lyrogenic cycle is indirect type of cycle.
		The lysogenic cycle phase are of proceede in
		tive phases.
, 100 100 100 100 100 100 100 100 100 10		Absorption, penetration, maturation, synthesis
		and release
	·	
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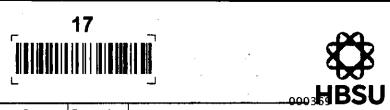
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		(1)
		(2)
		TK T
		14sogenic cycle



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Space for Marks	Question No.	START WRITING HERE
		lytic cycle is direct proceeding cycle.
		In lytic cycle 1st bacteriophase attached to
		surface of baeteria
	ح	Then enter into bacterial cells.
		Baeteriophane contein genetic material is enter
		into barterial (ell.
		Then bacteriophose separated and DNA
		Separated.
		DNA is genetical moderial and genetic material
		is replicate quar fast
<u> </u>	-	The DNA formeri binds to the bacterial
		Cell material like protein are produed there
		replication, they gives proper environment.
		Then DNA is most folded into circular shape.
	*	Called of penetration,
		The DMA produced there would into bacterial
		Cells, they hijasek the baeterial (ells, and
		produced no. of booke own material.
	-	The DNA is produced genetic material.
· 		one DNA produced equally three DNA.
	~	Then the DNA material is mature and
		produced Several bacteriophane.
		nent the baeteriophanes get out into cers.
		or release into the & barterial (ells.
	<b>~</b>	Then again proceed enter into Surfecce of bacteria.
-		and produced seral genetic material.
	-	there happen in 14tic (4c1e.

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Question No.	START WRITING HERE
	In lysogenic cycle the bacteriuphanes attached
	Surface of bacteria. and genetic material
, , ,	enter into 1 y sogenic bauteria.
	Then these Inlytic cycle DNA enter into
	barteria they do not attached to the bacteria
	they pro replicates there own.
	In lysogenic Cycle DNA enter into bacteria
•	and they attached to the bacteria.
	one parent genetic material is produced
	two doughter cells in lysogenic type.
	and next procedure is dame to lytic cycle
	the parent cell of DNA produced two doughter
	nucleic they produce folded into the circuer
	form, and next morequere tollowed by the
	lytic Cycle.
	difference between lytic and lysogenic type.
	17tic Cycle lylogenic Cycle.
0	lytic cycle is direct 1) trilylogense cycle is
	way indirect way.
Ø	lytic cycle DIA DIN lysogenic cycle
	does not produced DNA produced two
	the doughter (ells. daughter (ells.
	The board way that the base of
(2)	lytic cycle does not 3 14sugenic cycle enter
	የክሞል (VID) ነግ! ማይከርር ነፃነው ፕሎፌ (V447 / 10/10
	enter into lysogenic into the lytic cycle.
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Space for Marks	Question No.	START WRITING HERE
,	0	14tic cycle procede 4) 14tic tence place i'm.
		Absorption, penetration. maturation, lynthesis and release.
		materiation, Synthesis and release.
	·	and release.
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Question No.	START WRITING HERE
	passive transport!
	Solute Concentration is agains lower negion
	to the higher region. called of passive
	Hansport.
-	passive transport dynthesis the ATP
	passive transport is downhill hear procedure.
-	passive transport have two dithusion.
0	Simple diffusion:
	In these diffusion extended water can move
	and lower to upper region.
(2)	faceilitate diffusion!
	In facillitatate diffesion transporter is a
	permeases.
	Dolute concentration is a among the solute
	Concentration there is no energy needed.
	Concentration is carries for Hansporter
	Called as faeillitente diffusion.
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Space for Marks	Question No.	START WRITING HERE
		Colube Constantion is audient the Courte dulle
		Solute concentration is against the concentration of adjust than port.
		Solute Concentra Active Hansport Contein
		Primary active transport and Secondary active
		Hansport.
		In primary autive transport, (arries
		energonic reaction for the transport.
		and then endergonic reaction.
<u> </u>		609! - ATP converted into ADP + Pi
·		in secondary active transport:
		The ions are the close, but they contain
		Solute concentration and high responsible.
		torion channel open.
·		The state of the s
		新
		(XXXX)
		See. Cretive Hamport
		primary autice transport
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<b>HBSU</b>

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φIJ	•	1750somes are lingul types of organiles Contain	
		digestive enzyme.	
		lysosomes acts on biological protein lun	
	· -	as Carbohydrates, prot, nucleic acid, protein	
		ete.	
	<b>4</b> =-	lysosomes contain several type of digestive	
		enzyme.	
]	-	digestive enzyme stery in lysosomes and	
		provide proper environent and prof maintain	
		the PH level.	
		lysosomes contein 15 different types of	
		diquestive enzyme.	
	<u>-</u>	digestive material produced digest the	
		food material.	
		The street streets	
		W Windle Steph	
	-	[ ] Interior	
9.	ja j		
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	dj	Antiviral Therapy used for the prevent thand		
	-	Care the d'virue HTV.		
	_	Antiraral therapy also called as antiretravired		
		therapy.		
	<b>-</b>	Antiviral + HIV is a human deficiency		
		Hyman immunodeficiency virus.		
	~~	HIV is a derious and danqueer disease.		
	•	HIV donot curre easily.		
	_	HIV is a lifelony to cause diamen.		
		To they must required release the pain.		
	-	These antiviral therapy gives the relife		
		the pain. for the HIV.		
	•	HIV Caused by intected lytinge, Served Content		
		blood donate etc.		
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		en '4. virtus, stille", stille.		
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# **Rough Work**

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## **Re-Evaluator Sheet**

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Exam Date	<u></u>
Program Code & Name	<b>:</b>
Subject Code & Name	<b></b>
Year / Semester	<b>:</b>

### Questionwise Marks given by Re-Evaluator

Q. No.	Marks	Q. No.	Marks
1		6	
2		7	
3	•	8	
4		9	
5		10	
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Name & Signature of Re-Evaluator with Date